(24)

1ST AND PART BILL									
Pre-Measurements Recorded On:									
SL NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 07	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 136,Item No17.4								
	Measurements taken on	4-12-2020							
	Excavated soil								
	Vide Measurements taken on Excavated Soil	Cum						803.87	
	Filling available excavated soil from Item No.01								
	Vide Measurements taken on Filling available excavated soil from Item No.06	Cum						438.75	
						Present Qty		**1242.62**	**Cum**

CONTRACTOR

CONSULTANCY

ASSISTANT ENGINEER

4/12/2020

ASSISTANT EXECUTIVE ENGINEER

4-12-2020

1ST AND PART BILL

Pre-Measurements Recorded On:

SL NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 08	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, (Page no-16, Item No-4.28 of PWD SR 2018-19.)..								
	Measurements taken on	28-11-2020				9-12-2020			
	Footing								
	C1	Sqm	2	2	6.80		1.00	27.20	
		Sqm	2	2	3.70		1.00	14.80	
	C1'	Sqm	2	2	5.50		0.90	19.80	
		Sqm	2	2	3.80		0.90	13.68	
	C2	Sqm	2	2	7.40		0.85	25.16	
		Sqm	2	2	2.30		0.85	7.82	
	C2'	Sqm	2	2	5.60		0.80	17.92	
		Sqm	2	2	2.30		0.80	7.36	
	C3	Sqm	2	2	3.60		0.75	10.80	
		Sqm	2	2	3.60		0.75	10.80	
	C4	Sqm	4	2	3.50		0.65	18.20	
		Sqm	4	2	2.30		0.65	11.96	
	CF1	Sqm	1	2	9.90		0.40	7.92	
		Sqm	1	2	2.30		0.40	1.84	
	Tie Beam @ CF1	Sqm	1	2	3.15		0.60	3.78	
		Sqm	1	2	0.60		0.60	0.72	
	Colums Upto Plinth Beam top level								
	C1	Sqm	2	1	2.10		2.40	10.08	
	C1'	Sqm	2	1	2.10		2.50	10.50	
	C2	Sqm	2	1	2.10		2.50	10.50	
	C2'	Sqm	2	1	2.10		2.65	11.13	
	C3	Sqm	2	1	2.10		2.65	11.13	
	C4	Sqm	4	1	2.10		2.78	23.35	
	C3 @ CF1	Sqm	2	1	2.10		2.55	10.71	
						Present Qty		**287.16**	**Sqm**

CONTRACTOR

CONSULTANCY

ASSISTANT ENGINEER
9/12/2020

ASSISTANT EXECUTIVE ENGINEER
9/12/2020

1ST AND PART BILL									
Pre-Measurements Recorded On:									
SL NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 09	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (Page no-16, Item No-4.31 of PWD SR 2018-19.)..								
	Measurements taken on	27-12-2020							
	Plinth Beam								
	Along Grid A, B, C and D'	Sqm	4	2	15.45		0.60	74.16	
	Along Grid 1	Sqm	1	2	14.00		0.60	16.80	
	Along Grid 2, 3 and 4	Sqm	3	2	15.80		0.60	56.88	
						Present Qty		**147.84**	**Sqm**

correct

CONTRACTOR

CONSULTANCY

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

27/12/2020

1ST AND PART BILL

Pre-Measurements Recorded On: 29-11-2020 , 10-12-2020

Sl. NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 16	Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.and directions of the Engineer in charge. Specification No. KBS 4.1,4.6 (Page no-14, Item No-4.10 of PWD SR 2018-19.)								
	Footing								
	C1	Cum	2	1	6.80	3.70	1.00	50.32	
	C1'	Cum	2	1	5.50	3.80	0.90	37.62	
	C2	Cum	2	1	7.40	2.30	0.85	28.93	
	C2'	Cum	2	1	5.60	2.30	0.80	20.61	
	C3	Cum	2	1	3.60	3.60	0.75	19.44	
	C4	Cum	4	1	3.50	2.30	0.65	20.93	
	CF1	Cum	1	1	9.90	2.30	0.40	9.11	
	Tie Beam @ CF1	Cum	1	1	3.15	0.60	0.60	1.13	
	A. Total Qty	Cum						188.09	
	Column Concrete upto Plinth Beam Top								
	C1	Cum	2	1	0.30	0.75	2.40	1.08	
	C1'	Cum	2	1	0.30	0.75	2.50	1.13	
	C2	Cum	2	1	0.30	0.75	2.50	1.13	
	C2'	Cum	2	1	0.30	0.75	2.65	1.19	
	C3	Cum	2	1	0.30	0.75	2.65	1.19	
	C4	Cum	4	1	0.30	0.75	2.78	2.50	
	C3 @ CF1	Cum	2	1	0.30	0.75	2.55	1.15	
	B. Total Qty	Cum						9.36	
	Plinth Beam Concrete								
	Along Grid A, B, C and D	Cum	4	1	15.45	0.20	0.60	7.42	
	Along Grid 1	Cum	1	1	14.00	0.20	0.60	1.68	
	Along Grid 2, 3 and 4	Cum	3	1	15.80	0.20	0.60	5.69	
	C. Total Qty	Cum						14.78	
	Total Qty A+B+C						**Present Qty**	**212.24**	**Cum**

Chd. Engg

CONTRACTOR

CONSULTANCY

ASSISTANT ENGINEER

10/12/2020

ASSISTANT EXECUTIVE ENGINEER

10/12/2020

1ST AND PART BILL

Pre-Measurements Recorded On:

SL NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 28	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (Pg No.18 Item No.4.46.2 PWD SR 2018-19) (Ground Floor)								
	Measurements taken on	28.11.2020, 9-12-2020,					27-12-2020		22-1-2021
	Ground Floor and Below	(Page No 33-41)							
	Footings	Tonn						10.30	
	Plinth Beam	Tonn						2.33	
	Column upto Plinth top	Tonn						2.60	
	Columns @ GF	Tonn						2.46	
	Roof Beam @ GF	Tonn						5.92	
	Roof Slab @ GF	Tonn						5.45	
	Stair Case @ GF	Tonn						0.90	
						Present Qty		**29.96**	**Tonne**

CONTRACTOR

Date.....
CONSULTANCY

ASSISTANT ENGINEER
22/1/21

ASSISTANT EXECUTIVE ENGINEER
22/1/2021

1ST AND PART BILL

Pre-Measurements Recorded On:

SL NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 29	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (Pg No.18 Item No.4.46.2 PWD SR 2018-19) (First Floor)								
	Measurements taken on	26-01-21 , 12-02-21							
	First Floor [Page NO	41 - 45]							
	Columns @ 1st Floor	Tonne						2.46	
	Roof Beam @ 1st Floor	Tonne						5.92	
	Roof Slab @ 1st Floor	Tonne						5.45	
	Stair Case @ 1st Floor	Tonne						0.97	
						Present Qty		**14.80**	**Tonne**

S.R. INFRATECH

CONTRACTOR CONSULTANCY ASSISTANT ENGINEER ASSISTANT EXECUTIVE ENGINEER

1ST AND PART BILL									
Pre-Measurements Recorded On:									
SL NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
Item No. 30	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.and directions of the Engineer in charge.(Second Floor)								
	Measurements taken on	22-02-21, 9-3-21							
	II Floor [SECOND]	[Page No 46-50]							
	Columns @ 2nd Floor	Tonne						2.46	
	Roof Beam @ 2nd Floor	Tonne						5.92	
	Roof Slab @ 2nd Floor	Tonne						5.45	
	Stair Case @ 2nd Floor	Tonne						0.97	
						Present Qty		**14.80**	**Tonne**

CONTRACTOR

CONSULTANCY

ASSISTANT ENGINEER
9/3/21

ASSISTANT EXECUTIVE ENGINEER
9/3/2021

1ST AND PART BILL									
Pre-Measurements Recorded On:									
SL NO / BOQ NO	Description of Item	Unit	No	No	Length (m)	Breadth (m)	Depth (m)	QTY	Remarks
EIRL - 01	KSRB 2.5 : Earthwork excavation (in deposited soil) and filling sides of foundation upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1 ---- etc.,complete with all lead & lift and as per the instructions and directions of the Engineer-In-Charge of the work. (Page no-7, Item No-2.12 of PWD SR 2018-19.)..								
	Measurements taken on	30-12-2020							
	From NGL to Plinth top Level	Cum	1	1	18.00	17.00	0.80	244.80	~~EIRL To be approved~~ qty reserved
	Deductions								
	Plinth beam Concrete Qty	Cum						-14.78	
						Present Qty		**230.02**	**Cum**

CONTRACTOR

CONSULTANCY

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

1st AND PART BILL

Detailed Measurements Of Reinforcement

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Ground Floor Details																		
I	**Footing Reinforcement**																		
a	Footing @ Column **C1**	6.80	3.70		2														294.80
	Longer Direction				2	25	6.80				22	6.70	294.80						144.00
	shorter Direction				2	25			3.7		20	3.60	144.00						
b	Footing @ Column **C1'**	5.50	3.80		2														270.00
	Longer Direction				2	25	5.50				25	5.40	270.00						170.20
	shorter Direction				2	25			3.8		23	3.70	170.20						
c	Footing @ Column **C2**	7.40	2.30		2														335.80
	Longer Direction				2	25	7.40				23	7.30	335.80						88.00
	shorter Direction				2	25			2.3		20	2.20	88.00						
d	Footing @ Column **C2'**	5.60	2.30		2														220.00
	Longer Direction				2	25	5.60				20	5.50	220.00						70.40
	shorter Direction				2	25			2.3		16	2.20	70.40						
e	Footing @ Column **C3**	3.60	3.60		2														140.00
	Longer Direction				2	25	3.60				20	3.50	140.00						140.00
	shorter Direction				2	25			3.6		20	3.50	140.00						
f	Footing @ Column **C4**	3.50	2.30		4													244.80	
	Longer Direction				4	20	3.50				18	3.40	244.80					132.00	
	shorter Direction				4	20			2.3		15	2.20	132.00						
g	Footing @ Column **CF1**	9.90	2.30		1														
	Bottom reinforcement				1												78.20		
	Longer Direction				1	16	9.90	0.3			8	10.20	78.20					214.50	
	shorter Direction				1	20			2.3	0.12	83	2.60	214.50						
	Top reinforcement																78.20		
	Longer Direction				1	16	9.90	0.3			8	10.20	78.20					214.50	
	shorter Direction				1	20			2.3	0.12	83	2.60	214.50						
h	Tie Beam @ **CF1**	3.15	0.60		1											103.00			103.00
	Bottom Main bars				1	25	3.15				20	5.15	103.00			46.35			46.35
	Top Main Bars				1	25	3.15				9	5.15	46.35						
	Stirrups 4LGD															77.50			
	Stirrup 1				1	12			3.15	0.13	25	3.10	77.50			67.50			
	Stirrup 2				1	12			3.15	0.13	25	2.70	67.50						
																294.35	156.40	805.80	2022.55
														0.395	0.617	0.889	1.580	2.469	3.858
																261.64	247.15	1989.63	7803.05

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Contractor

P. Ramchirsi

Date.....

PMC

Assistant Engineer

28/11/2020

Assistant Exicutive Engineer

28/11/2021

Engineer

Sl. No		Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
			L	B	H			L	Spacing	L	Spacing									
														Total kgs	10301.47					
														Total in kg	10301.47					
														Total tonne	10.30	TONNE				
II		**Plinth Beam Reinforcement**																		
	a	Along Grid - A																		
		PB1	12.93	0.20	0.30	1														
		Bottom Main Bar				1	25					2	13.23	26.45						26.45
		Top Main Bar				1	20					2	14.30	28.6					28.60	
		Stirrups / Lateral ties				1	8			12.93	0.3	44	1.5	66.00	66.00					
		PB2																		
		Bottom Main Bar	5.38	0.20	0.30	1	25					2	0.30	0.6						0.60
		Top Main Bar				1	16					2	1.38	2.75				2.75		
		Stirrups / Lateral ties				1	8			5.38	0.3	19	1.5	28.50	28.50					
	b	Along Grid - B																		
		PB1	12.93	0.20	0.30	1														
		Bottom Main Bar				1	25					2	13.23	26.45						26.45
		Top Main Bar				1	20					2	14.30	28.6					28.60	
		Stirrups / Lateral ties				1	8			12.93	0.3	44	1.5	66.00	66.00					
		PB2																		
		Bottom Main Bar	5.38	0.20	0.30	1	25					2	0.30	0.6						0.60
		Top Main Bar				1	16					2	1.38	2.75				2.75		
		Stirrups / Lateral ties				1	8			5.38	0.3	19	1.5	28.50	28.50					
	c	Along Grid - C																		
		PB1	12.93	0.20	0.30	1														
		Bottom Main Bar				1	25					2	13.23	26.45						26.45
		Top Main Bar				1	20					2	14.30	28.6					28.60	
		Stirrups / Lateral ties				1	8			12.93	0.3	44	1.5	66.00	66.00					
		PB2																		
		Bottom Main Bar	5.38	0.20	0.30	1	25					2	0.30	0.6						0.60
		Top Main Bar				1	16					2	1.38	2.75				2.75		
		Stirrups / Lateral ties				1	8			5.38	0.3	19	1.5	28.50	28.50					
	d	Along Grid - D																		
		PB1	12.93	0.20	0.30	1														
		Bottom Main Bar				1	25					2	13.23	26.45						26.45
		Top Main Bar				1	20					2	14.30	28.6					28.60	
		Stirrups / Lateral ties				1	8			12.93	0.3	44	1.5	66.00	66.00					
		PB2																		
		Bottom Main Bar	5.38	0.20	0.30	1	25					2	0.30	0.6						0.60
		Top Main Bar				1	16					2	1.38	2.75				2.75		

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Contractor PMC Assistant Engineer Assistant Exicutive Engineer Executive Engineer

9/12/2020 9/12/2020

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Stirrups / Lateral ties				1	8			5.38	0.3	19	1.5	28.50	28.50					
e	Along Grid - 1																		
	PB1	5.43	0.20	0.60	2														
	Bottom Main Bar				2	25					2	6.80	27.2						27.20
	Top Main Bar				2	20					2	6.80	27.2					27.20	
	Stirrups / Lateral ties				2	8			5.43	0.3	19	1.5	57.00	57.00					
	PB2	3.15	0.20	0.60	1														
	Bottom Main Bar				1	25					2	4.65	9.3						9.30
	Top Main Bar				1	20					2	4.65	9.3					9.30	
f	Along Grid - 2																		
	PB1	6.10	0.20	0.60	2														
	Bottom Main Bar				2	25					2	7.48	29.9						29.90
	Top Main Bar				2	20					2	7.48	29.9					29.90	
	Stirrups / Lateral ties				2	8			6.10	0.3	21	1.5	63.00	63.00					
	PB2	3.60	0.20	0.60	3														
	Bottom Main Bar				3	25					2	5.10	30.6						30.60
	Top Main Bar				3	16					2	5.10	30.6				30.60		
	Stirrups / Lateral ties				3	8			3.60	0.3	13	1.5	58.50	58.50					
g	Along Grid - 3																		
	PB1	6.10	0.20	0.60	2														
	Bottom Main Bar				2	25					2	7.48	29.9						29.90
	Top Main Bar				2	20					2	7.48	29.9					29.90	
	Stirrups / Lateral ties				2	8			6.10	0.3	21	1.5	63.00	63.00					
	PB2	3.60	0.20	0.60	3														
	Bottom Main Bar				3	25					2	5.10	30.6						30.60
	Top Main Bar				3	16					2	5.10	30.6				30.60		
	Stirrups / Lateral ties				3	8			3.60	0.3	13	1.5	58.50	58.50					
h	Along Grid - 4																		
	PB1	6.10	0.20	0.60	2														
	Bottom Main Bar				2	25					2	7.48	29.9						29.90
	Top Main Bar				2	20					2	7.48	29.9					29.90	
	Stirrups / Lateral ties				2	8			6.10	0.3	21	1.5	63.00	63.00					
	PB2	3.60	0.20	0.60	3														
	Bottom Main Bar				3	25					2	5.10	30.6						30.60
	Top Main Bar				3	16					2	5.10	30.6				30.60		
	Stirrups / Lateral ties				3	8			3.60	0.3	13	1.5	58.50	58.50					
														799.50			102.80	240.60	326.20
														0.395	0.617	0.889	1.580	2.469	3.858
														315.85			162.45	594.07	1258.49

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Contractor

PMC

Assistant Engineer

9/12/2020

Assistant Exicutive Engineer

9/12/2020

Executive Engineer

Sl. No		Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
			L	B	H			L	Spacing	L	Spacing									
														Total kgs	2330.86					
														Total in kg	2330.86					
														Total tonne	2.33	TONNE				
III		Column Reinforcement																		
	A	Column Upto Plinth beam Top	0.75	0.30																
	a	C1	0.75	0.30	2.40	2														
		Main Bars				2	25					18	3.95	142.20						142.20
		Stirrups / Lateral ties				2	8			2.40	0.25	11	2.00	44.00	44.00					
						2	8			2.40	0.25	11	1.35	29.70	29.70					
	b	C1'	0.75	0.30	2.50															
		Main Bars				2	25					18	3.95	142.20						142.20
		Stirrups / Lateral ties				2	8			2.50	0.25	11	2.00	44.00	44.00					
						2	8			2.50	0.25	11	1.35	29.70	29.70					
	c	C2	0.75	0.30	2.50															
		Main Bars				2	25					10	3.90	78.00						78.00
		Stirrups / Lateral ties				2	8			2.50	0.25	11	2.00	44.00	44.00					
						2	8			2.50	0.25	11	1.35	29.70	29.70					
	d	C2'	0.75	0.30	2.65															
		Main Bars				2	25					10	4.00	80.00						80.00
		Stirrups / Lateral ties				2	8			2.65	0.25	12	2.00	48.00	48.00					
						2	8			2.65	0.25	12	1.35	32.40	32.40					
	e	C3	0.75	0.30	2.65															
		Main Bars				2	25					4	3.95	31.60						31.60
						2	20					4	3.95	31.60					31.60	
		Stirrups / Lateral ties				2	8			2.65	0.25	12	2.00	48.00	48.00					
						2	8			2.65	0.25	12	1.35	32.40	32.40					
	f	C4	0.75	0.30	2.78															
		Main Bars				4	20					4	4.08	65.28					65.28	
						4	16					4	4.08	65.28				65.28		
		Stirrups / Lateral ties				4	8			2.78	0.25	12	2.00	96.00	96.00					
						2	8			2.78	0.25	12	1.35	32.40	32.40					
	g	C3 @ CF1	0.75	0.30	2.55															
		Main Bars				2	25					4	3.85	30.80						30.80
						2	20					4	3.85	30.80					30.80	
		Stirrups / Lateral ties				2	8			2.55	0.25	11	2.00	44.00	44.00					
						2	8			2.55	0.25	11	1.35	29.70	29.70					
															584.00			65.28	127.68	504.80
															0.395	0.617	0.889	1.580	2.469	3.858

Contractor

PMC Date.....

Assistant Engineer
27/12/2020

Assistant Exicutive Engineer
27/12/2020

Executive Engineer

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Sl. No		Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
			L	B	H			L	Spacing	L	Spacing									
															230.72			103.16	315.26	1947.53
														Total kgs	2596.66					
														Total in kg	2596.66					
														Total tonne	**2.60**	TONNE				
	B	**Columns @ Ground Floor**																		
	a	C1	0.75	0.30	3.65	2														
		Main Bars				2	25					18	3.65	131.40						131.40
		Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
						2	8			3.05	0.25	13	1.35	35.10	35.10					
	b	C1'	0.75	0.30	3.65	2														
		Main Bars				2	25					18	3.65	131.40						131.40
		Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
						2	8			3.05	0.25	13	1.35	35.10	35.10					
	c	C2	0.75	0.30	3.65	2														
		Main Bars				2	25					10	3.65	73.00						73.00
		Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
						2	8			3.05	0.25	13	1.35	35.10	35.10					
	d	C2'	0.75	0.30	3.65	2														
		Main Bars				2	25					10	3.65	73.00						73.00
		Stirrups / Lateral ties				2	8			3.05	0.25	13	2.00	52.00	52.00					
						2	8			3.05	0.25	13	1.35	35.10	35.10					
	e	C3	0.75	0.30	3.65	4														
		Main Bars				4	25					4	3.65	58.40						58.40
						4	20					4	3.65	58.40					58.40	
		Stirrups / Lateral ties				4	8			3.05	0.25	13	2.00	104.00	104.00					
						4	8			3.05	0.25	13	1.35	70.20	70.20					
	f	C4	0.75	0.30	3.65	4														
		Main Bars				4	20					4	3.65	58.40					58.40	
						4	16					4	3.65	58.40				58.40		
		Stirrups / Lateral ties				4	8			3.05	0.25	13	2.00	104.00	104.00					
						4	8			3.05	0.25	13	1.35	70.20	70.20					
															696.80			58.40	116.80	467.20
															0.395	0.617	0.889	1.580	2.469	3.858
															275.28			92.29	288.40	1802.47
														Total kgs	2458.43					
														Total in kg	2458.43					
														Total tonne	**2.46**	TONNE				

Contractor

PMC Date.....

Assistant Engineer
27/12/2020

Assistant Executive Engineer
27/12/2020

Executive Engineer

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
IV	**Roof Beam Reinforcement**																		
A	**Ground Floor**																		
	B1 Along Grid A & D'	18.00	0.30	0.60	2														
	Bottom Main Bar				2	25					4	17.95	143.60						143.60
	Top Main Bar				2	25					3	18.75	112.50						112.50
	Bottom Extra Bar bw Grid 1&2				2	25					1	4.43	8.85						8.85
	Bottom Extra Bar bw Grid 2&3				2	25					1	4.65	9.30						9.30
	Bottom Extra Bar bw Grid 3&4				2	25					1	3.30	6.60						6.60
	Top Extra Bar @ Grid 2				2	25					4	3.90	31.20						31.20
	Top Extra Bar @ Grid 3				2	25					3	3.50	21.00						21.00
	Stirrups																		
	Between Grid 1 & 3				2	10			11.73	0.15	79	1.70	268.60		268.60				
	Between Grid 3 & 4				2	10			3.95	0.3	14	1.70	47.60		47.60				
	B2 Along Grid B & C	18.00	0.30	0.60	2														
	Bottom Main Bar				2	25					4	17.95	143.60						143.60
	Top Main Bar				2	25					3	18.75	112.50						112.50
	Bottom Extra Bar bw Grid 1&2				2	25					2	4.43	17.70						17.70
	Bottom Extra Bar bw Grid 2&3				2	25					2	4.65	18.60						18.60
	Bottom Extra Bar bw Grid 3&4				2	25					2	3.30	13.20						13.20
	Top Extra Bar @ Grid 2				2	25					4	3.90	31.20						31.20
	Top Extra Bar @ Grid 3				2	25					3	3.50	21.00						21.00
	Stirrups																		
	Between Grid 1 & 4				2	10			15.98	0.1	161	1.70	547.40		547.40				
	B3 Along Grid 1	17.00	0.30	0.60	1														
	Bottom Main Bar				1	25					3	16.95	50.85						50.85
	Top Main Bar				1	25					3	17.75	53.25						53.25
	Bottom Extra Bar bw Grid A&B				1	25					2	4.38	8.75						8.75
	Bottom Extra Bar bw Grid C&D				1	25					2	4.38	8.75						8.75
	Top Extra Bar				1	25					4	7.60	30.40						30.40
	Stirrups																		
	Between Grid A & D				1	10			14.00	0.15	94	1.70	159.80		159.80				

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Contractor

PMC

Assistant Engineer
22/01/21

Assistant Exicutive Engineer
22/01/2021

Executive Engineer

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	B4 Along Grid 2	6.70	0.30	0.60	2														66.50
	Bottom Main Bar				2	25					5	6.65	66.50						59.60
	Top Main Bar				2	25					4	7.45	59.60						27.00
	Bottom Extra Bar				2	25					3	4.50	27.00						
	Stirrups																		
	Between Grid A- B & C-D'				2	10			11.45	0.15	77	1.70	261.80		261.80				
	B4 Along Grid 3	6.70	0.30	0.60	2														66.50
	Bottom Main Bar				2	25					5	6.65	66.50						59.60
	Top Main Bar				2	25					4	7.45	59.60						27.00
	Bottom Extra Bar				2	25					3	4.50	27.00						
	Stirrups																		
	Between Grid A- B & C-D'				2	10			11.45	0.15	77	1.70	261.80		261.80				
	B5 Along Grid 3	4.20	0.30	0.60	1														12.45
	Bottom Main Bar				1	25					3	4.15	12.45						
	Top Main Bar				1	20					2	4.95	9.90					9.90	
	Stirrups																		
	Between Grid B & C				1	10			3.60	0.15	25	1.70	42.50		42.50				
	B6 Along Grid 4	6.70	0.30	0.60	2														66.50
	Bottom Main Bar				2	25					5	6.65	66.50						
	Top Main Bar				2	20					2	7.45	29.80					29.80	
	Stirrups																		
	Between Grid A- B & C-D'				2	8			11.45	0.15	77	1.70	261.80	261.80					
														261.80	1589.50			39.70	1228.00
														0.395	0.617	0.889	1.580	2.469	3.858
														103.43	981.17			98.02	4737.65
													Total kgs	5920.28					
													Total in kg	5920.28					
													Total tonne	**5.92**	TONNE				
V	**Roof Slab Reinforcement**																		
A	**Ground Floor**																		
a	Between Grid 1-4 & A-B	18.00	6.55																
	Main Bar - a1				1	12	17.95	0.13			139	6.50	903.50			903.50			
	Longitudinal Bar - a1				1	12			6.50	0.13	51	17.95	915.45			915.45			
	Top Extra Above Beam B4 - a3				2	16	6.4	0.26			26	3.90	202.80				202.80		

Contractor PMC Assistant Engineer Assistant Exicutive Engineer Executive Engineer

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Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
b	Between Grid 1-3 & B-C	12.85	3.90																
	Main Bar - a1				1	12	12.80	0.13			99	3.85	381.15			381.15			
	deduct at Cutout	9.09	0.60		-1	12	9.09	0.13			71	0.60	-42.60			-42.60			
	Longitudinal Bar - a5				1	10			3.85	0.25	16	12.80	204.80		204.80				
	Top Extra @ B2 along Grid B - a3	1.70	3.90		1	16	1.70	0.26			8	3.05	24.40				24.40		
	Top Extra @ B2 along Grid C - a1	1.70	3.90		1	12	1.70	0.13			14	3.05	42.70			42.70			
	Top Extra near Cut out @B2 Along grid B - a2	9.09	3.90		1	16	9.09	0.1			92	3.65	335.80				335.80		
	Top Extra near Cut out @B2 Along grid C - a2	9.09	3.90		1	16	9.09	0.1			92	3.75	345.00				345.00		
c	Between Grid 1-4 & C-D'	18.00	6.55																
	Main Bar - a1				1	12	17.95	0.13			139	6.50	903.50			903.50			
	Longitudinal Bar - a1				1	12			6.50	0.13	51	17.95	915.45			915.45			
	Top Extra Above Beam B4 - a3				2	16	6.4	0.26			26	3.90	202.80				202.80		
															204.80	4019.15	1110.80		
														0.395	0.617	0.889	1.580	2.469	3.858
															126.42	3572.58	1755.34		
												Total kgs	5454.34						
												Total in kg	5454.34						
												Total tonne	5.45	TONNE					
VI	**Stair Case Reinforcement**																		
A	**Ground Floor**																		
a	**First Flight**																		
	From Plinth to landing Beam	4.00	1.50																
	Main Bar				1	16	1.50	0.13			13	5.70	74.10				74.10		
	Distribution Bar				1	10			5.70	0.2	30	1.45	43.50		43.50				
	Top Extra Bar @ Plinth Beam				1	16	1.50	0.13			13	2.10	27.30				27.30		
	Top Extra Bar @ mid landing				1	16	1.50	0.13			13	2.40	31.20				31.20		
	Distribution Bar				1	10			1.00	0.2	6	1.45	8.70		8.70				
	Landing Slab	3.90	1.80																
	Top Main Bar				1	16	3.9	0.13			31	1.55	48.05				48.05		
	Distribution Bar				1	16	1.6	0.13			13	3.90	50.70				50.70		
	Bottom Main Bar				1	16	3.9	0.13			31	1.55	48.05				48.05		
	Distribution Bar				1	16	1.6	0.13			13	3.90	50.70				50.70		

Contractor

PMC

Date.....

Assistant Engineer

22/01/21

Assistant Exicutive Engineer

22/01/2021

Executive Engineer

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Landing Beam	3.90	0.20								3	3.90	11.70						11.70
	Bottom main bar				1	25	3.9				2	4.70	9.40					9.40	
	Top main bar				1	20	3.9												
	Stirrups				1	8			3.9	0.15	27	1.50	40.50	40.50					
b	Second Flight																		
	From MidLanding to Roof Landing	4.00	1.50								13	5.70	74.10				74.10		
	Main Bar				1	16	1.50	0.13							43.50				
	Distribution Bar				1	10			5.70	0.2	30	1.45	43.50				42.90		
	Top Extra Bar @ Mid landing				1	16	1.50	0.13			13	3.30	42.90				31.20		
	Top Extra Bar @ Roof landing				1	16	1.50	0.13			13	2.40	31.20						
														40.50	95.70		478.30	9.40	11.70
														0.395	0.617	0.889	1.580	2.469	3.858
														16.00	59.07		755.83	23.21	45.14
												Total kgs		899.25					
												Total in kg		899.25					
												Total tonne		0.90	TONNE				
	First Floor Details																		
I	Column Reinforcement																		
A	Columns @ First Floor																		131.40
a	C1	0.75	0.30	3.65	2						18	3.65	131.40						
	Main Bars				2	25			3.05	0.25	13	2.00	52.00	52.00					
	Stirrups / Lateral ties				2	8			3.05	0.25	13	1.35	35.10	35.10					
					2	8													
b	C1'	0.75	0.30	3.65	2						18	3.65	131.40						131.40
	Main Bars				2	25			3.05	0.25	13	2.00	52.00	52.00					
	Stirrups / Lateral ties				2	8			3.05	0.25	13	1.35	35.10	35.10					
					2	8													
c	C2	0.75	0.30	3.65	2						10	3.65	73.00						73.00
	Main Bars				2	25			3.05	0.25	13	2.00	52.00	52.00					
	Stirrups / Lateral ties				2	8			3.05	0.25	13	1.35	35.10	35.10					
					2	8													
d	C2'	0.75	0.30	3.65	2						10	3.65	73.00						73.00
	Main Bars				2	25			3.05	0.25	13	2.00	52.00	52.00					
	Stirrups / Lateral ties				2	8			3.05	0.25	13	1.35	35.10	35.10					
					2	8													
e	C3	0.75	0.30	3.65	4						4	3.65	58.40						58.40
	Main Bars				4	25													

Contractor

PMC

Assistant Engineer

Assistant Exicutive Engineer

26/01/2021

Executive Engineer

Sl. No		Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
			L	B	H			L	Spacing	L	Spacing									
						4	20					4	3.65	58.40					58.40	
		Stirrups / Lateral ties				4	8			3.05	0.25	13	2.00	104.00	104.00					
						4	8			3.05	0.25	13	1.35	70.20	70.20					
	f	C4	0.75	0.30	3.65	4														
		Main Bars				4	20					4	3.65	58.40					58.40	
						4	16					4	3.65	58.40				58.40		
		Stirrups / Lateral ties				4	8			3.05	0.25	13	2.00	104.00	104.00					
						4	8			3.05	0.25	13	1.35	70.20	70.20					
															696.80			58.40	116.80	467.20
															0.395	0.617	0.889	1.580	2.469	3.858
															275.28			92.29	288.40	1802.47
														Total kgs	2458.43					
														Total in kg	2458.43					
														Total tonne	**2.46**	TONNE				
II		**Roof Beam Reinforcement**																		
	A	**First Floor**																		
		B1 Along Grid A & D'	18.00	0.30	0.60	2														
		Bottom Main Bar				2	25					4	17.95	143.60						143.60
		Top Main Bar				2	25					3	18.75	112.50						112.50
		Bottom Extra Bar bw Grid 1&2				2	25					1	4.43	8.85						8.85
		Bottom Extra Bar bw Grid 2&3				2	25					1	4.65	9.30						9.30
		Bottom Extra Bar bw Grid 3&4				2	25					1	3.30	6.60						6.60
		Top Extra Bar @ Grid 2				2	25					4	3.90	31.20						31.20
		Top Extra Bar @ Grid 3				2	25					3	3.50	21.00						21.00
		Stirrups																		
		Between Grid 1 & 3				2	10			11.73	0.15	79	1.70	268.60		268.60				
		Between Grid 3 & 4				2	10			3.95	0.3	14	1.70	47.60		47.60				
		B2 Along Grid B & C	18.00	0.30	0.60	2														
		Bottom Main Bar				2	25					4	17.95	143.60						143.60
		Top Main Bar				2	25					3	18.75	112.50						112.50
		Bottom Extra Bar bw Grid 1&2				2	25					2	4.43	17.70						17.70
		Bottom Extra Bar bw Grid 2&3				2	25					2	4.65	18.60						18.60

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Contractor

PMC Date.....

Assistant Engineer
12/02/21

Assistant Exicutive Engineer
12/02/2021

Executive Engineer

Sl. No	Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
		L	B	H			L	Spacing	L	Spacing									
	Bottom Extra Bar bw Grid 3&4				2	25					2	3.30	13.20						13.20
	Top Extra Bar @ Grid 2				2	25					4	3.90	31.20						31.20
	Top Extra Bar @ Grid 3				2	25					3	3.50	21.00						21.00
	Stirrups																		
	Between Grid 1 & 4				2	10			15.98	0.1	161	1.70	547.40		547.40				
	B3 Along Grid 1	17.00	0.30	0.60	1														
	Bottom Main Bar				1	25					3	16.95	50.85						50.85
	Top Main Bar				1	25					3	17.75	53.25						53.25
	Bottom Extra Bar bw Grid A&B				1	25					2	4.38	8.75						8.75
	Bottom Extra Bar bw Grid C&D				1	25					2	4.38	8.75						8.75
	Top Extra Bar				1	25					4	7.60	30.40						30.40
	Stirrups																		
	Between Grid A & D				1	10			14.00	0.15	94	1.70	159.80		159.80				
	B4 Along Grid 2	6.70	0.30	0.60	2														
	Bottom Main Bar				2	25					5	6.65	66.50						66.50
	Top Main Bar				2	25					4	7.45	59.60						59.60
	Bottom Extra Bar				2	25					3	4.50	27.00						27.00
	Stirrups																		
	Between Grid A- B & C-D'				2	10			11.45	0.15	77	1.70	261.80		261.80				
	B4 Along Grid 3	6.70	0.30	0.60	2														
	Bottom Main Bar				2	25					5	6.65	66.50						66.50
	Top Main Bar				2	25					4	7.45	59.60						59.60
	Bottom Extra Bar				2	25					3	4.50	27.00						27.00
	Stirrups																		
	Between Grid A- B & C-D'				2	10			11.45	0.15	77	1.70	261.80		261.80				
	B5 Along Grid 3	4.20	0.30	0.60	1														
	Bottom Main Bar				1	25					3	4.15	12.45						12.45
	Top Main Bar				1	20					2	4.95	9.90					9.90	
	Stirrups																		
	Between Grid B & C				1	10			3.60	0.15	25	1.70	42.50		42.50				
	B6 Along Grid 4	6.70	0.30	0.60	2														
	Bottom Main Bar				2	25					5	6.65	66.50						66.50
	Top Main Bar				2	20					2	7.45	29.80					29.80	
	Stirrups																		
	Between Grid A- B & C-D'				2	8			11.45	0.15	77	1.70	261.80	261.80					

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Contractor

PMC

Assistant Engineer

12/02/21

Assistant Exicutive Engineer

12/02/2021

Executive Engineer

Sl. No		Member details	size in meter			No of elements	Dia of bar	Main Bars calc		Distribution bars calc		No. of bar	Cutting length	Total Cutting length	8	10	12	16	20	25
			L	B	H			L	Spacing	L	Spacing									
															261.80	1589.50			39.70	1228.00
															0.395	0.617	0.889	1.580	2.469	3.858
															103.43	981.17			98.02	4737.65
														Total kgs	5920.28					
														Total in kg	5920.28					
														Total tonne	**5.92**	TONNE				
III		**Roof Slab Reinforcement**																		
	A	**First Floor**																		
	a	Between Grid 1-4 & A-B	18.00	6.55																
		Main Bar - a1				1	12	17.95	0.13			139	6.50	903.50			903.50			
		Longitudinal Bar - a1				1	12			6.50	0.13	51	17.95	915.45			915.45			
		Top Extra Above Beam B4 - a3				2	16	6.4	0.26			26	3.90	202.80				202.80		
	b	Between Grid 1-3 & B-C	12.85	3.90																
		Main Bar - a1				1	12	12.80	0.13			99	3.85	381.15			381.15			
		deduct at Cutout	9.09	0.60		-1	12	9.09	0.13			71	0.60	-42.60			-42.60			
		Longitudinal Bar - a5				1	10			3.85	0.25	16	12.80	204.80		204.80				
		Top Extra @ B2 along Grid B - a3	1.70	3.90		1	16	1.70	0.26			8	3.05	24.40				24.40		
		Top Extra @ B2 along Grid C - a1	1.70	3.90		1	12	1.70	0.13			14	3.05	42.70			42.70			
		Top Extra near Cut out @B2 Along grid B - a2	9.09	3.90		1	16	9.09	0.1			92	3.65	335.80				335.80		
		Top Extra near Cut out @B2 Along grid C - a2	9.09	3.90		1	16	9.09	0.1			92	3.75	345.00				345.00		
	c	Between Grid 1-4 & C-D'	18.00	6.55																
		Main Bar - a1				1	12	17.95	0.13			139	6.50	903.50			903.50			
		Longitudinal Bar - a1				1	12			6.50	0.13	51	17.95	915.45			915.45			
		Top Extra Above Beam B4 - a3				2	16	6.4	0.26			26	3.90	202.80				202.80		
																204.80	4019.15	1110.80		
															0.395	0.617	0.889	1.580	2.469	3.858
																126.42	3572.58	1755.34		

Contractor

PMC
Date.....

Assistant Engineer
12/2/21

Assistant Exicutive Engineer
12/2/2021

Executive Engineer